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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/790,728

03/03/2004

Cheul Kyung Han

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EXAMINER

NGUYEN, LINH THI

ART UNIT

PAPER NUMBER

2627

SHORTENED STATUTORY PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE
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3 MONTHS

01/04/2007

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 01/04/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

Office Action Summary	Application No. 10/790,728	Applicant(s) HAN, CHEUL KYUNG	
	Examiner Linh T. Nguyen	Art Unit 2627	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 March 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

Figures 1, 2 and 3 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 6, 7 and 9-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Takeda (US Patent Number 7095691).

In regards to claims 1 and 9, Takeda discloses a method and apparatus for recording data on an optical disc (Fig. 2) comprising the steps of: (A) detecting optimum writing power from a test area on the optical disc (Fig. 2, step 101); (B) determining

whether or not a current writing power is within a predetermined allowable range set with reference to the detected optimum writing power (Column 4, lines 52-55); and (C) performing a writing operation with the writing power controlled to maintain a reflection signal level corresponding to the detected optimum writing power when the current writing power is within the predetermined allowable range (Column 4, lines 55-60), and performing the writing operation with the writing power controlled based on power update information when the current writing power is not within the predetermined allowable range (Column 4, lines 60-63).

In regards to claims 2 and 11, Takeda discloses the method and apparatus, wherein the step (B) comprises the steps of comparing a current writing position with previously stored position information corresponding to the predetermined allowable range (Fig. 2, step 106), and determining, based on the result of the comparison, whether or not the current writing power is within the predetermined allowable range set with reference to the detected optimum writing power (Column 6, lines 60-67).

In regards to claims 3 and 12, Takeda discloses the method and apparatus, wherein the position information corresponding to the predetermined allowable range is detected based on a disc type or a writing speed associated with the optical disc (Column 5, lines 25-26).

In regards to claims 4 and 10, Takeda discloses the method and apparatus,

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wherein the current writing position is detected from absolute time in pre-groove data detected from a wobble signal generated in association with the optical signal (Column 4, lines 43-49).

In regards to claims 6 and 13, Takeda discloses the method and apparatus, wherein the power update information includes power information based on position information (St1=Pt1 is obtained by modifying the Str=Ptr (column 5, lines 25-27), which are power levels base on the current position information, therefore, when Ptr exceeds the allowable power level Plim, hence update the power to St1 (column 7, lines 1-9)).

In regards to claims 7 and 14, Takeda discloses the method and apparatus, wherein the power update information includes information about a variation in writing power at a predetermined writing interval (Fig. 15).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 5, 8 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takeda in view of Ogawa (US Publication number 20030161237).

In regards to claim 5, Takeda discloses the method according to claim 1, wherein the predetermined allowable range of the writing power and/or the power update information is detected based on a disc type (Fig. 2, step 101 to s105). However, Takeda does not disclose the different writing speeds to correspond to the different disc types.

In the same field of endeavor, Ogawa discloses a variety of speeds correspond to the different disc type (Figs. 5, 6, and 7). At the time of the invention it would have been obvious to a person of ordinary skill in the art to combine the method of updating the OPC of a disk depending on the disc type as taught by Takeda to also depend on the speed as taught by Ogawa. The motivation for doing so would have been to record with an optimum power level at a high speed.

In regards to claims 8 and 15, Takeda does not but Ogawa discloses the method and apparatus, wherein the step of controlling the writing power based on the power update information at the step (C) is carried out when the writing operation is performed at a writing speed higher than an appropriate writing speed of the optical disc (Paragraph [0055] and Figs. 5, 6 and 7). The motivation is the same as claim 5 above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh T. Nguyen whose telephone number is 571-272-5513. The examiner can normally be reached on 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on 571-272-4483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LN
December 20, 2006


THANG V. TRAN
PRIMARY EXAMINER